

VME Intensity Monitor - Task #11718

Milestone # 11650 (Closed): Mar 2016 Release A - 201603A

Refactor FFT readout to occur at the end of pulse

02/15/2016 09:50 AM - John Diamond

Status:	Closed	Start date:	02/15/2016
Priority:	Normal	Due date:	
Assignee:	John Diamond	% Done:	100%
Category:	DAQ	Estimated time:	2.00 hours
Target version:		Spent time:	8.00 hours
Description			
FFT readout should happen at the same time as BBB and RAW readouts.			

History

#1 - 02/28/2016 11:24 AM - John Diamond

- % Done changed from 0 to 100

Added a write<>() template-method to Buffer<> that allows the user to cast the source buffer's data type to the buffer's internal data type. This was necessary because the FFT buffer is stored as floats but the digitizer encodes the data as int16_ts.

Added an FFT buffer to the Toroid class. The readout task will readout the digitizer's FFT into this buffer at the end of pulse.

The FFT read accessor now reads from the Toroid's FFT buffer instead of directly from the digitizer.

Next step will be [#11840](#).

#2 - 02/28/2016 11:27 AM - John Diamond

- Parent task changed from #11649 to #11650

#3 - 02/28/2016 06:50 PM - John Diamond

- Status changed from Assigned to Closed